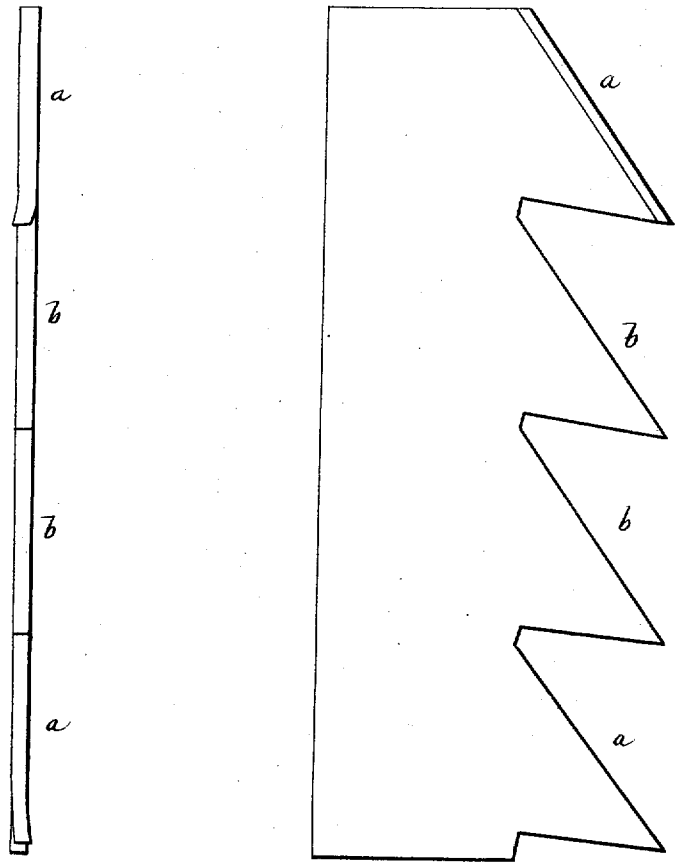
9021X

L. Fisk,

Saw,

Patented Aug. 17, 1835.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

Aug 17, 1835 9021X 4.

Levi Fisk, Jefferson New York.

Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Levi Fisk, himself of his improvement in the Saw Mill Saw.

To all to whom these presents shall come.

Be it known that I Levi Fisk, of Jefferson, County of Essex and State of New York, have invented a new & useful improvement in the Saw Mill Saw, & the following is a full and exact description of the construction & operation of said improvement as invented by me, to wit, The improvement consists in combining the use of the plane with that of the saw for the purpose of shaving or planing the lumber, at the time of sawing the same. As to the process or application of this invention, Take a common Saw Mill Saw. of the usual construction and sharpen or file to an edge every third tooth or more or less upon the upper side of said tooth. The teeth so sharpened being brought to an edge alternately on opposite sides of the saw, so as to operate like a plane or shave in smoothing the lumber, It has been ascertained by several experiments that the sharpening obliquely, the third tooth, answers a better purpose than the substitution of another tooth thus leaving two teeth of the usual form, between the planes or teeth sharpened to an edge which destroys that tendency to comb that would occur were all the teeth of the saw or any number more than one in a place so sharpened. The inside corner being cut off the planes or sharpened teeth are set out (as near the roots of the teeth as is convenient) with a dot or hammer (or top of the

teeth

teeth only) so as to correspond with the set of common teeth, that is the planes or sharpened teeth are, the whole extent of the saw, set out in their tops as far as the common teeth at their points. The points of the planes or sharpened teeth are drawn in a very little, say a quarter of an inch from their points. said planes or sharpened teeth are filed obliquely on their top, leaving the cut corner the longest, after which the file is drawn lightly on the outside, the end of the file bearing lightly against the plate, so as to render the edge formed on the top, perfectly true, - which is parallel with the plate. The bottom of these teeth do retain no material alteration, except by this being drawn in a little at their points, for the purpose of effecting the top of the plane or sharpened tooth as above mentioned. The other teeth do not require quite so much set as is usual leaving the planes or edged teeth out the most. The operation of a saw with this improvement is in the usual manner, & while it cuts as the common saw in the downward stroke, its returning or upward motion causes the planes or edged teeth to take off thin shavings neatly cut off at both ends, leaving the lumber unusually smooth, causing the edges particularly the under edge, to be much smoother that when sawed by the common saw. I am aware that the simple cutters or smoothers is not a new invention & I therefore lay no claim to them as they have been applied edgeways to the side of the saw, but a saw of the above described construction runs much straighter than the common one or that as slightly improved and according to this combined principle, the planes or shaving teeth cut the most on the side where there is the most pressure, & all "ribbing" which is usually left on lumber is entirely or rather nearly altogether prevented, by the operation of this saw, & more lumber in a given time may be cut by it than can be performed by the common saw. for a further illustration of my invention reference is made to the model & drawing deposited

deposited in the Patent Office, what I claim as my invention, and for which I solicit Letters Patent is the upper oblique edge of saw teeth being cut to the right & left alternately & set together, or betwixt any number of common teeth, for the upward motion of the saw, for the purpose of sawing wood in a smooth manner, as above described.

Witnesses

Benj. Kurtz
Andrew Harper

Levi Fisk

528 1870

Drawing Made